Subject: Re: adding sparse arrays
Posted by Vince Hradil on Thu, 07 Jun 2007 15:23:23 GMT
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On Jun 7, 9:32 am, nivedita.raghun...@gmail.com wrote:
> Hi all,
>
> Thanks for the suggestions.
>
> The arrays that I'm working with are really huge so there's no option
> of A+B. I cannot convert to full matrix form using fulstr and have to
> work only with the sparse arrays A and B to get another sparse array (A
> +B). The non-zero elements of the two arrays are in different index
> positions (ija), so the sa vectors cannot be added directly.
>
> Under these constraints, whats the best (and the fastest) way to add
> them?
>
> -Nivedita
>
> On Jun 7, 4:36 am, Paolo Grigis <pgri...@astro.phys.ethz.ch> wrote:
>
>> nivedita.raghun...@gmail.com wrote:
>>> Hello all,
>
>>> How do I add two sparse arrays? The fact that a sparse function to add
>>> doesn't exist makes me think its pretty simple, but I just can't get
>>> it. I do not want to use any loops.
>
>> Well, it depends where the non-zero, non-diagonal elements of the two
>> arrays are. If they are located in the same positions, you just need
>> to add the sa vectors while keeping the ija vectors fixed.
>
>> Ciao,
>> Paolo
>
>>> Thanks in advance.
>
>>> -Nivedita- Hide quoted text -
>
>> - Show quoted text -

I don't use sprsin, but can you try c = sprsin(fulstr(a)+fulstr(b))?
or maybe c = sprsin(fulstr(temporary(a))+fulstr(temporary(b))) to
delete a and b from memory?